Serial No.: 10/645,257 Examiner: Nittaya Juntima

In the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) A packet router that supports multi-time scale resource management, comprising:

a management agent ("MA") that manages a differentiated services policy information database operable to store policies on forwarding packets in the packet router;

a resource server system ("RSS") that controls forwarding of packets in the packet router based on adaptive selections of policies from the policy information database;

a flow measurement system ("FMS") that monitors packet flows through the packet router and generates statistic reports which affect the RSS selection of control;

wherein the FMS includes a monitor resource controller ("MRC") that receives adaptive selections of policies from the policy information database; and

a hardware forwarding engine ("HFE") that receives and forwards packets in response to the RSS controls.

- 2. (previously presented) The packet router of claim 1 wherein the MA resides in a management plane of a communications network.
- 3. (original) The packet router of claim 1 wherein the RSS resides in a control plane of a communications network.
- 4. (original) The packet router of claim 1 wherein the HFE resides in a data plane of a communications network.
- 5. (original) The packet router of claim 4 wherein the communications network comprises an internet protocol ("IP") network.
 - 6-7. (cancelled).
- 8. (original) The packet router of claim 1 wherein the FMS includes a monitor data collector/data source controller ("MDC") for receiving data collected at observation points of the HFE.

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9. (currently amended) A system for supporting multi-time scale resource management in a packet router, the system comprising:

means for managing a differentiated services policy information database that stores policies on forwarding packets in the packet router;

means for controlling forwarding of packets in the packet router based on adaptive selections of policies from the policy information database;

means for monitoring packet flows through the packet router based on an interpreted service level agreement related to the adaptive selections of policies from the policy information database;

means for generating statistic reports that affect a resource server system selection of control; and

means for receiving and forwarding packets in response to the resource server system selection of control[[s]].

- 10. (original) The system of claim 9 wherein the means for managing is a management agent ("MA").
- 11. (original) The system of claim 9 wherein the means for controlling forwarding of packets in the packet router is a resource server system ("RSS").
- 12. (original) The system of claim 9 wherein the means for receiving and forwarding is a hardware forwarding engine ("HFE").
- 13. (original) The system of claim 9 wherein the means for monitoring is a flow measurement system ("FMS").
- 14. (original) The system of claim 13 wherein the means for generating statistic reports is a flow measurement system ("FMS").
 - 15-16. (cancelled).
- 17. (currently amended) A method of providing multi-time scale resource management in a packet router, the method comprising:

managing a differentiated services policy information database that stores policies on forwarding packets in the packet router;

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controlling forwarding of packets in the packet router based on adaptive selections of policies from the policy information database;

monitoring packet flows through the packet router based on an interpreted service level agreement related to the adaptive selections of policies from the policy information database;

generating statistic reports that affect <u>a resource server system selection of control</u>the forwarding of packets in the packet router; and

receiving and forwarding packets in response to the <u>resource server system selection of</u> <u>controlforwarding of packets in the packet router</u>.

- 18. (original) The method of claim 17 wherein the managing is performed by a management agent.
- 19. (original) The method of claim 17 wherein the controlling forwarding of packets in the packet router is performed by a resource server system.
- 20. (original) The method of claim 17 wherein the monitoring is performed by a flow measurement system.
- 21. (original) The method of claim 17 wherein the generating statistic reports is performed by a flow measurement system.
- 22. (original) The method of claim 17 wherein the receiving and forwarding is performed by a hardware forwarding engine.